Talling the Yeast Topolsomerase II - Francisco - Personal Pe Human 8-1-pyrroline-5-carboxylate synthetase E. coli †glutamyl phosphate reductase E. coll histidine biosynthesis HIS10 E. coli histidine biosynthesis HIS2 E. coli acetate Co-A transferase α E. coll acetate Co-A transferase B Yeast histidine biosynthesis HIS2 Human succinyl CoA-transferase E. coli glutamate-5-kinase B. subtilis DNA pol III α E. coli DNA pol III α E. coli DNA pol III α E. coli gyrase B E. coli gyrase A

4

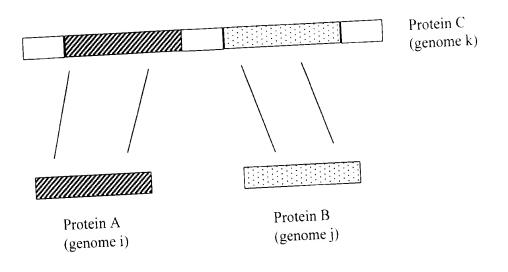


FIG. 1B

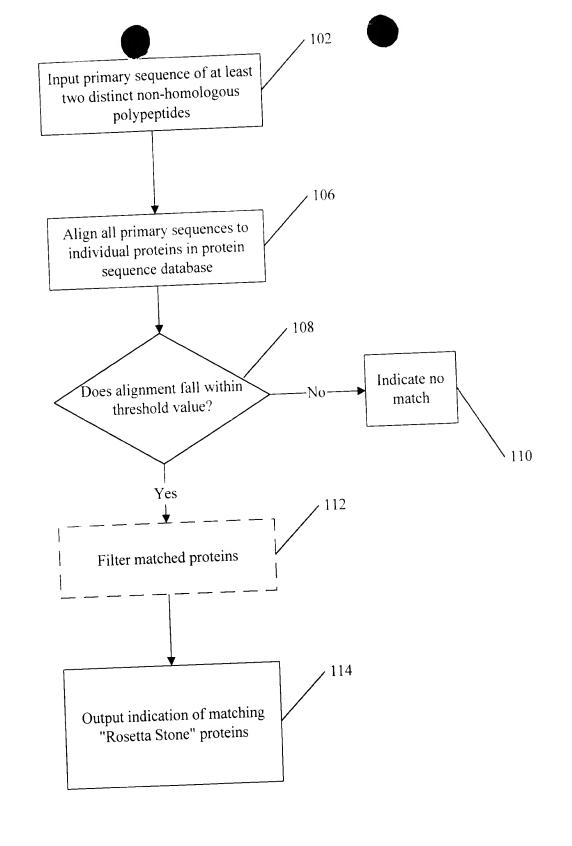
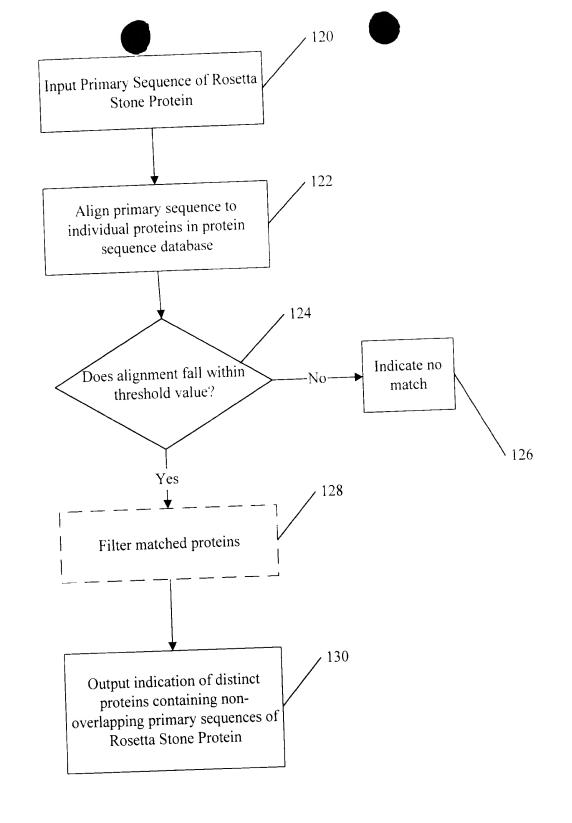
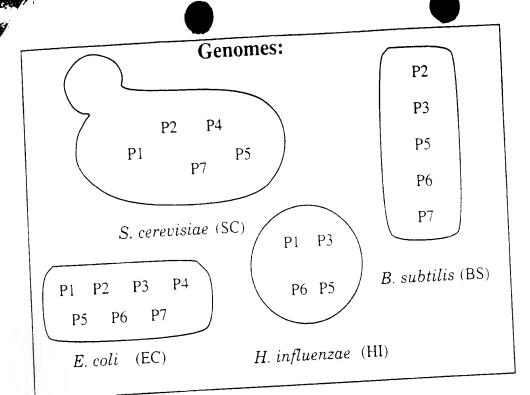
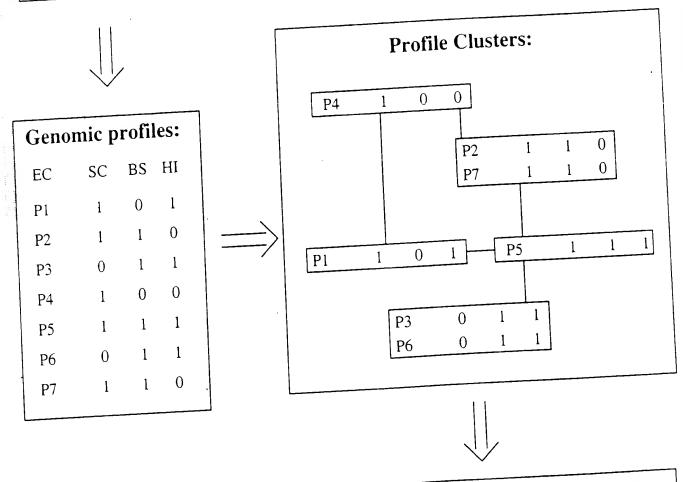


FIG. 2A







Conclusion: P2 and P7 are functionally linked.
P3 and P6 are functionally linked

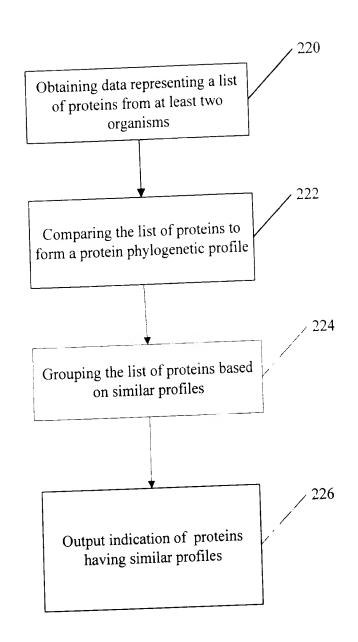
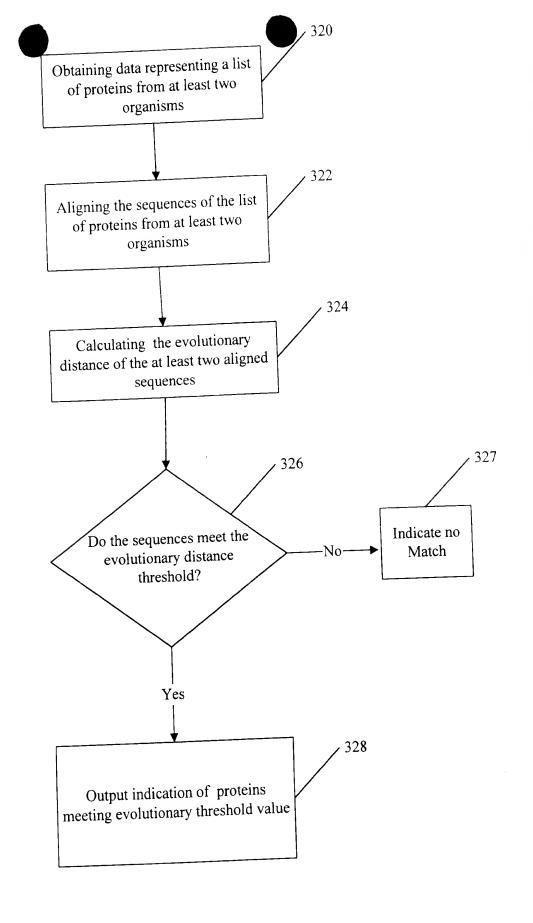
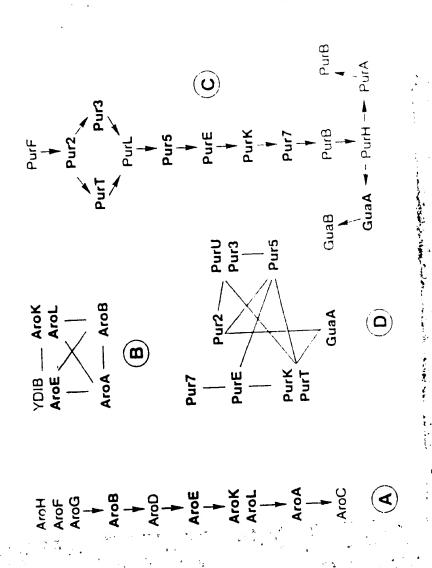


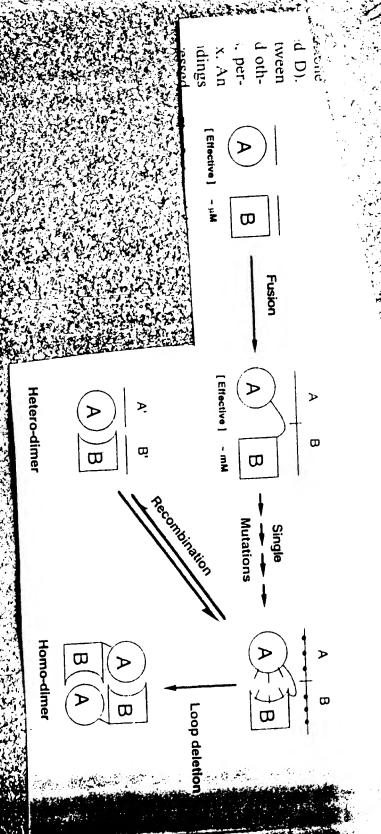
FIG. #A

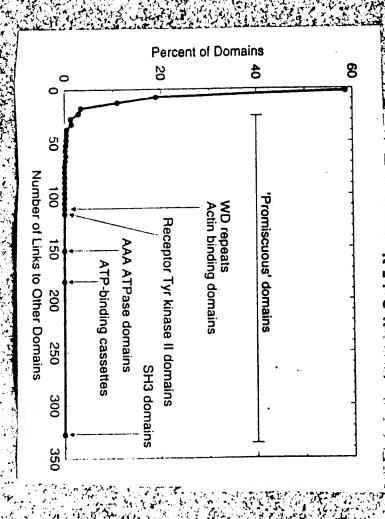




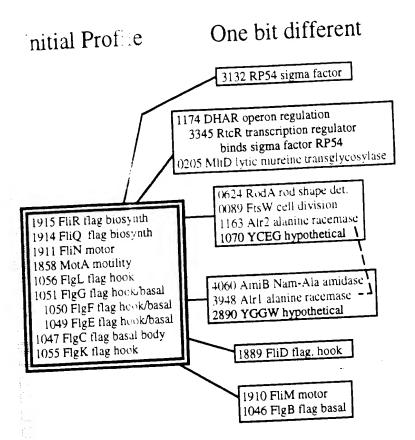
119

Enzymes stacked together (for example, Arok and Arol) are





One bit different Initia Profile 1877 PgsA phospholipid synthesis 2895 YGGH hypothetical 0648 YBEX hypothetical 3624 RL34 nbosome L34 3222 RL36 ribosome L36 3115 RL27 ribosome L27 3097 RS15 ribosome S15 2731 YQCB hypothetical 0058 YABO hypothetical 1059 YCEC hypothetical 0229 RFH peptide release factor 2539 ClpB heat shock protein 3885 RL7 ribosome L7 3224 RL15 ribosome L15 3217 RL17 ribosome L17 4071 YJFH hypothetical 1177 PTH peptidyl-tRNA hydrolase 2518 RNC ribonuclease III 3230 RS14 ribosome S14 1387 G3P3 dehydrogenase 3242 RL4 ribosome L4 1945 NONE hypothetical 2561 GrpE co-chaperone 3661 GidB glucose inhib. division 3232 RL24 ribosome L24 3210 DEF polypeptide deformylase 1684 RL20 ribosome L20 0188 MesJ cell cycle protein 2553 RL19 ribosome L19 3116 RL21 ribosome L21 4094 RL9 ribosome L9 2567 SmpB small protein B



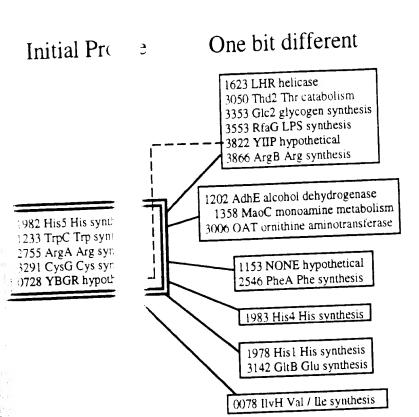
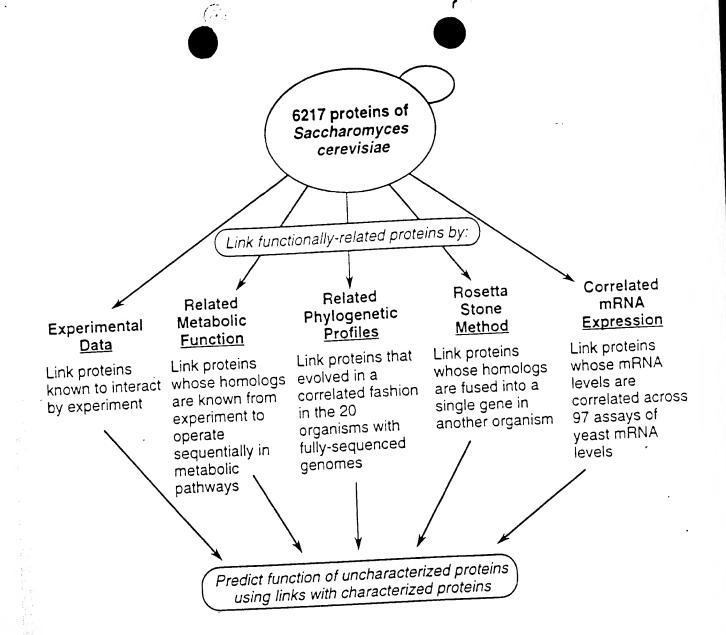
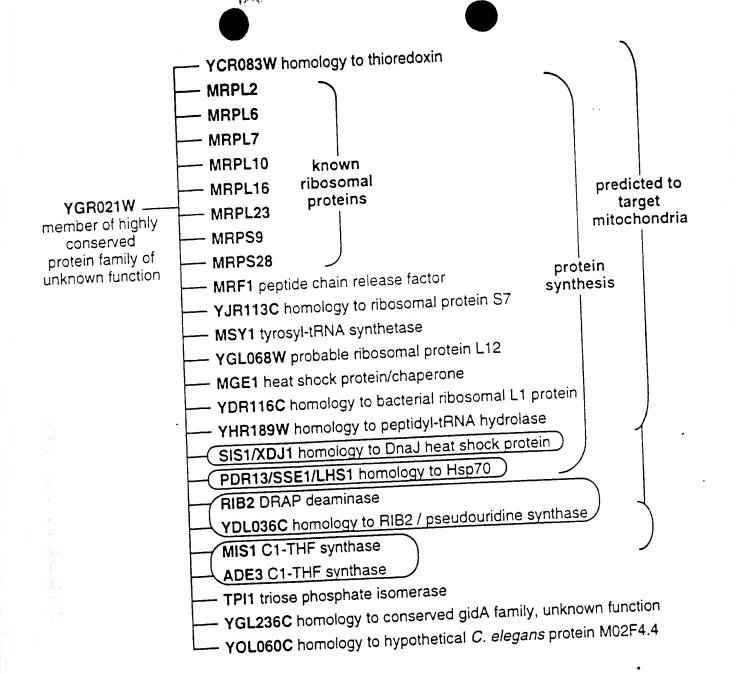
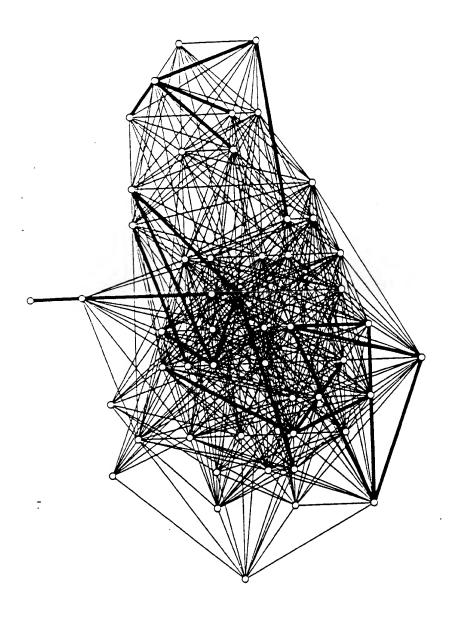


FIG 3C





tRNA & mRNA 4 subunits of RNA polymerase II, and III synthesis DIM1 rRNA dimethyltransferase ribosome mRNA 8 ATP-dependent RNA helicases biogenesis splicing Sup35 snRNP-specific elongation factor 2 GTP-binding peptide chain 8 amino acid-tRNA synthetases protein release factor synthesis 6 ribosomal proteins and prion and Sup45 peptide chain release factor folding 3 translation initiation factors 6 subunits of CCT chaperonin MAP1 Met-amino peptidase protein 5 protein sorting and targeting proteins targeting 2 DNA replication factor C subunits Glutathione reductase QRI7 and YKR038C peptidases YOR11W ATP-dependent permease TOP3 DNA topoisomerase III



HLB Fig **

